

Message Text

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EXCON

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TAGS: ESTC, COCOM, JA, CH

SUBJ: JAPANESE PROGRAMMABLE FREQUENCY SYNTHESIZER AND PCB

AUTO TESTER TO CHINA - IL 1529

REF : A. STATE 174304

B. COCOM DOC(72)1286

C. COCOM DOC(72)1291

1. DURING THE US/JAPAN COCOM COMPUTER BILATERALS IN LATE AUGUST, THE JAPANESE SIDE REQUESTED ANALYSIS OF THE TECHNICAL PROBLEMS WHICH HAD DELAYED US APPROVAL OF THE TWO CASES UNDER REFERENCE UP TO THAT TIME. IN SUBSEQUENT DISCUSSION SPECIFIC TECHNICAL QUESTIONS WERE RAISED BY THE US SIDE. THUS FAR NEITHER REQUEST FOR INFORMATION HAS BEEN ANSWERED. THEREFORE, IN AN EFFORT TO INSPIRE A RESPONSE EMBASSY OFFICERS MAY WISH TO PASS THE FOLLOWING TO MR. KATAYAMA AND ALSO INDICATE THAT ANY INFORMATION HE MAY BE ABLE TO PROVIDE ON THE QUESTIONS INDICATED WILL

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BE HELPFUL IN CONCLUDING US STUDY OF THE CASES.

2. FREQUENCY SYNTHESIZER. AS MR. KATAYAMA NOTED IN WASHINGTON, THE MODEL TR-3132C-K PROGRAMMABLE FREQUENCY SYNTHESIZER (4,500 DOLS) HAS A HIGH RESOLUTION (PRECISION) BUT IN THE JAPANESE VIEW REASONABLE END USE/USER CIRCUMSTANCES WILL PREVAIL. HOWEVER, INTERAGENCY STUDY REVEALED CONCERN THAT HIGH RISK OF DIVERSION WOULD EXIST BECAUSE THE EQUIPMENT IS NECESSARY TO DEVELOPMENT OF ADVANCED MILITARY COMMUNICATIONS EQUIPMENT AND IS NOT SERIALY PRODUCED IN ANY OF THE COMMUNIST COUNTRIES. EQUIPMENT EXCEEDING 10 HZ PRECISION HAS BEEN EXPORTED ONLY TO THE SERPUKHOV HIGH ENERGY PHYSICS INSTITUTE WHERE UNUSUAL FOREIGN PRESENCE ASSURES AGAINST DIVERSION, AND TO CHINA WITH INTELSAT EARTH STATIONS AND TRIDENT AIRCRAFT.

3. PRINTED CIRCUIT BOARD AUTO TESTER. TECHNICAL EVALUATION OF THE AUTO TESTER (46,000 DOLS) INDICATED THAT IT CAN BE USED FOR ANY PRINTED CIRCUIT BOARD INCLUDING THE MOST SOPHISTICATED ONE AND THEREFORE WOULD RUN THE RISK OF BEING EXCESSIVE TO ORDINARY NEEDS IN RADIO AND TELEVISION RECEIVER MANUFACTURE. APPROVALS FOR SUCH EQUIPMENT HAVE LIKEWISE BEEN RARE BECAUSE OF ITS UTILITY IN MANUFACTURE AND TESTING OF BOARDS FOR USE IN STRATEGIC EQUIPMENT.

4. QUESTIONS ASKED BY THE US SIDE WERE:

A. DOES THE CRYSTAL OSCILLATOR IN THE FREQUENCY SYNTHESIZER VIBRATE WITH THE NECESSARY PRECISION TO ACTUALLY ACHIEVE THE STATED FREQUENCY RESOLUTION?

B. HOW MANY PINS OR LEADS AND WHAT KINDS OF TESTS CAN THE TESTER PERFORM? RUSH

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